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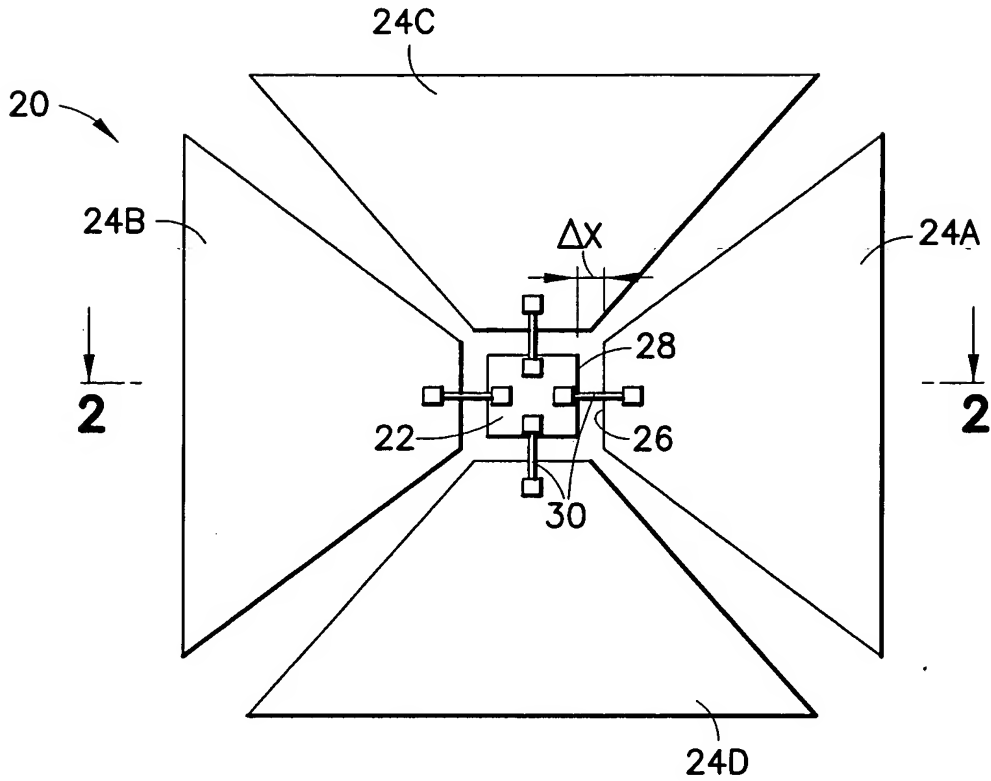


FIG. 1

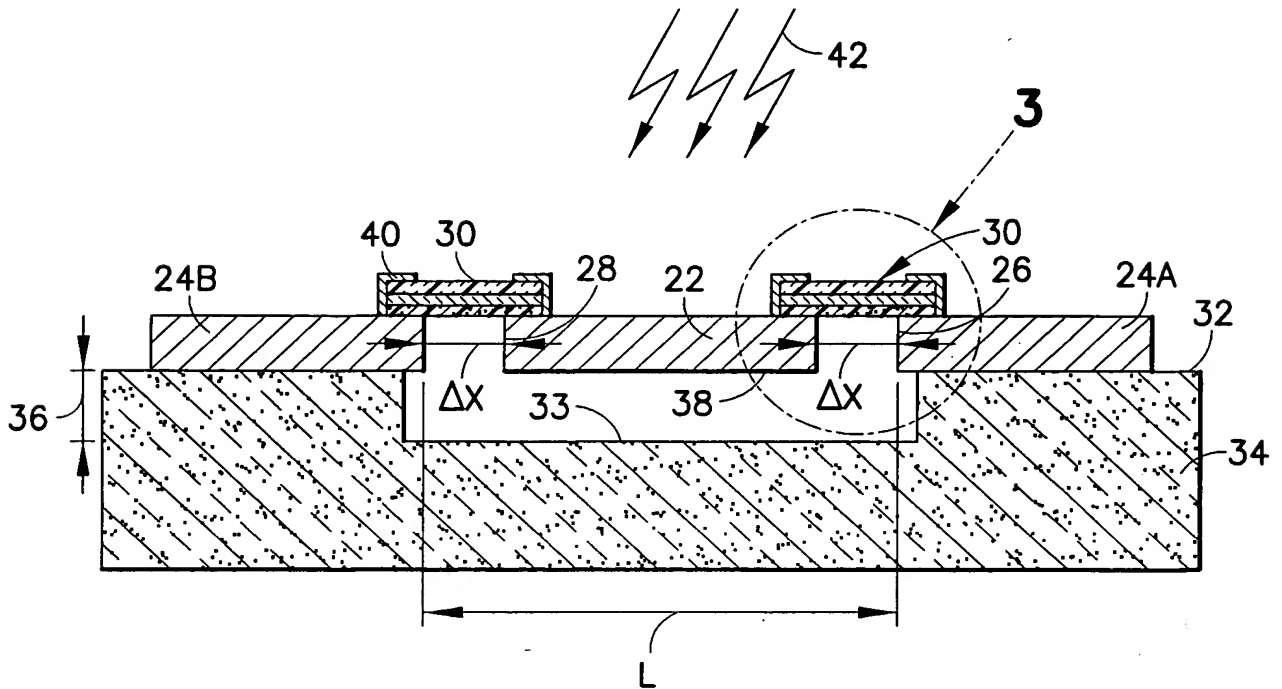


FIG. 2

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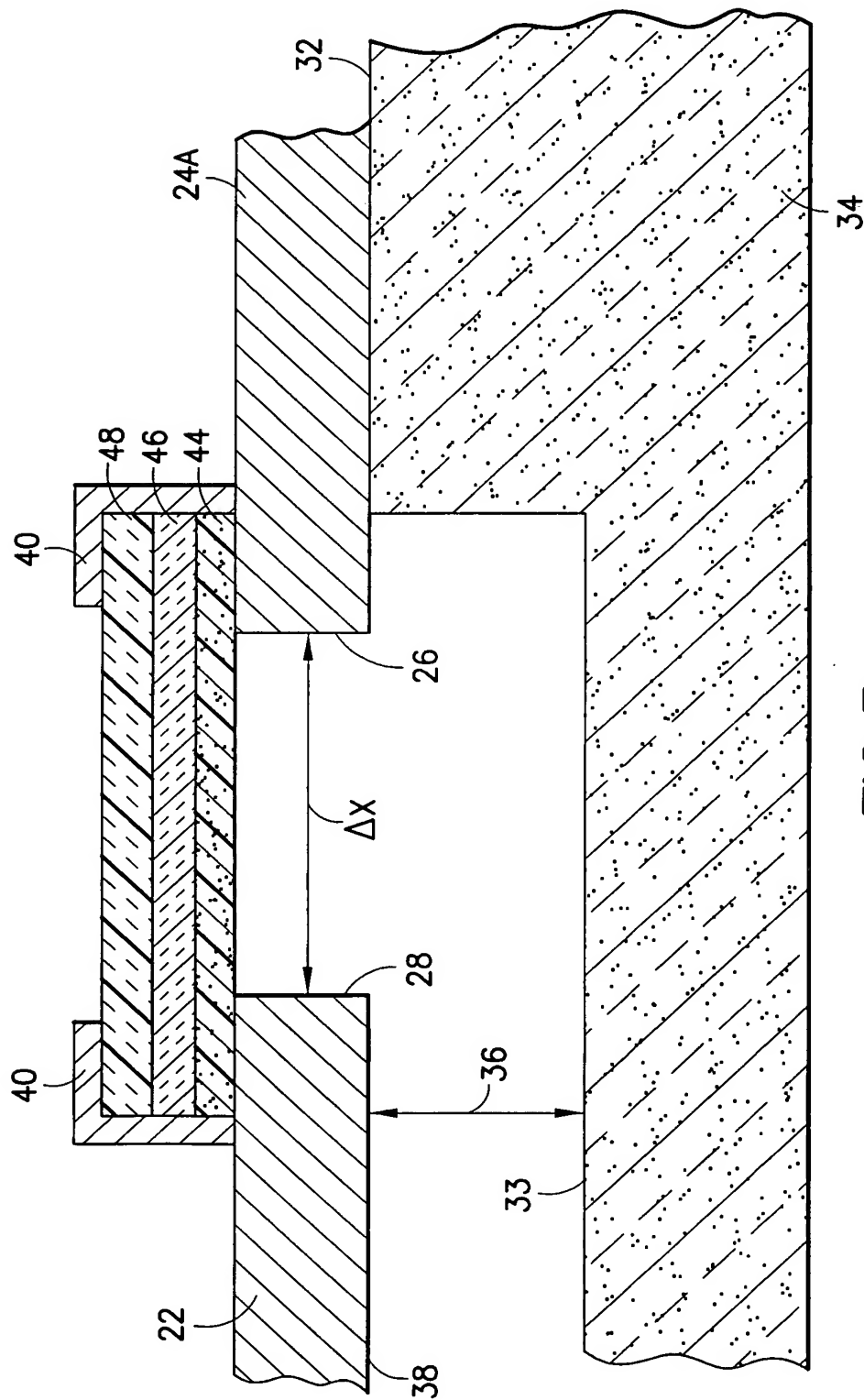


FIG.3

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A	B	C	D	E	F	G
CONDUCTIVE/HTS	CONDUCTIVELY COUPLED WITH NORMAL METAL 25 MICRONS	HTS ANTENNA TO LOAD CONNECTION 25 MICRONS	HTS ANTENNA TO LOAD CONNECTION 25 MICRONS	HTS ANTENNA TO LOAD CONNECTION 15 MICRONS	HTS ANTENNA TO LOAD CONNECTION 10 MICRONS	HTS ANTENNA TO LOAD CONNECTION 5 MICRONS
NEP(pW) SYSTEM	100	0.9	0.25	0.1	0.06	0.016
NEP(pW)	68	0.61	0.17	0.068	0.041	0.011
NEP(pW) AVERAGED (N TIMES)	$\frac{68}{(\text{Sqrt}125)}=6.1$	0.61	0.17		0.041	0.011
TEMPERATURE (K)	300					
UNIT CELL WIDTH (um)	25	77	77	77	77	40
FILL FACTOR (%AREA)	95	25	25	15	10	5
BRIDGE Si3N4 Eff THICKNESS (Å)	6000	95	95	95	95	95
LEG SiNi THICKNESS (Å)	6000	2000	500	500	500	500
LEG METAL THICKNESS (Å)	2000	5000	1750	1500	400	200
LEG WIDTH (um)	10	1	1	0.5	0.5	0.5
LEG LENGTH (um)	25	250	250	250	250	500
TCR %/K	2.4	2.4	2.4	10	2.4	2.4
BOLOMETER RESISTANCE (chms)	50,000	99,200	99,200	99,200	248,000	248,000

FIG.4

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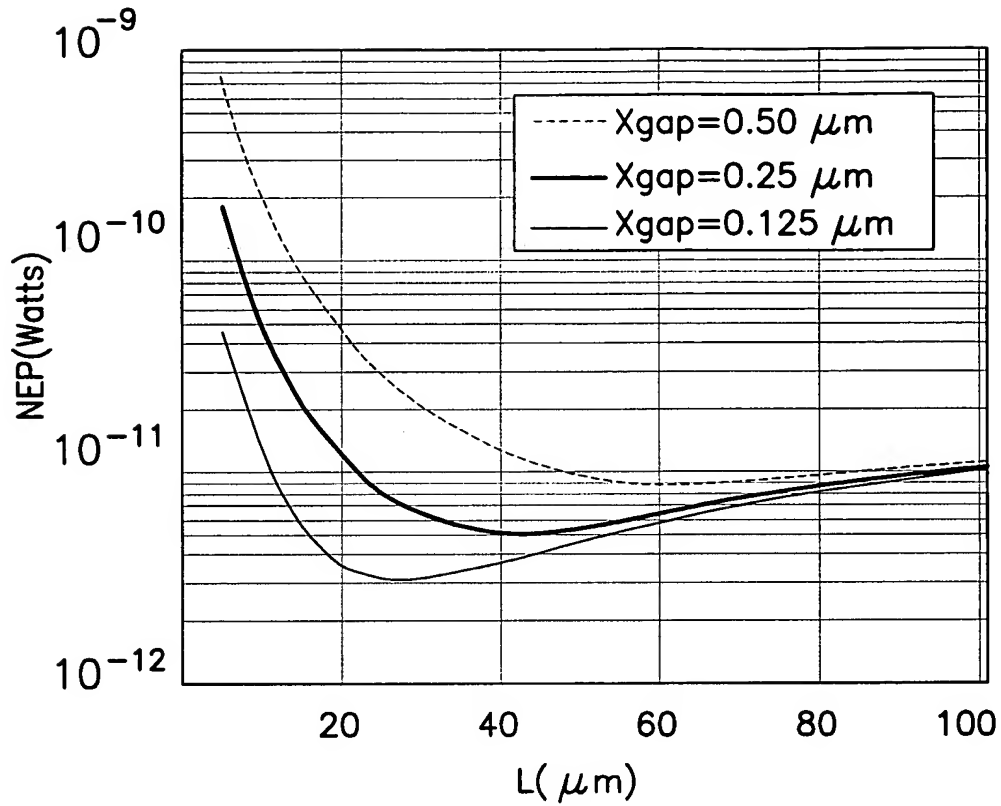


FIG.5

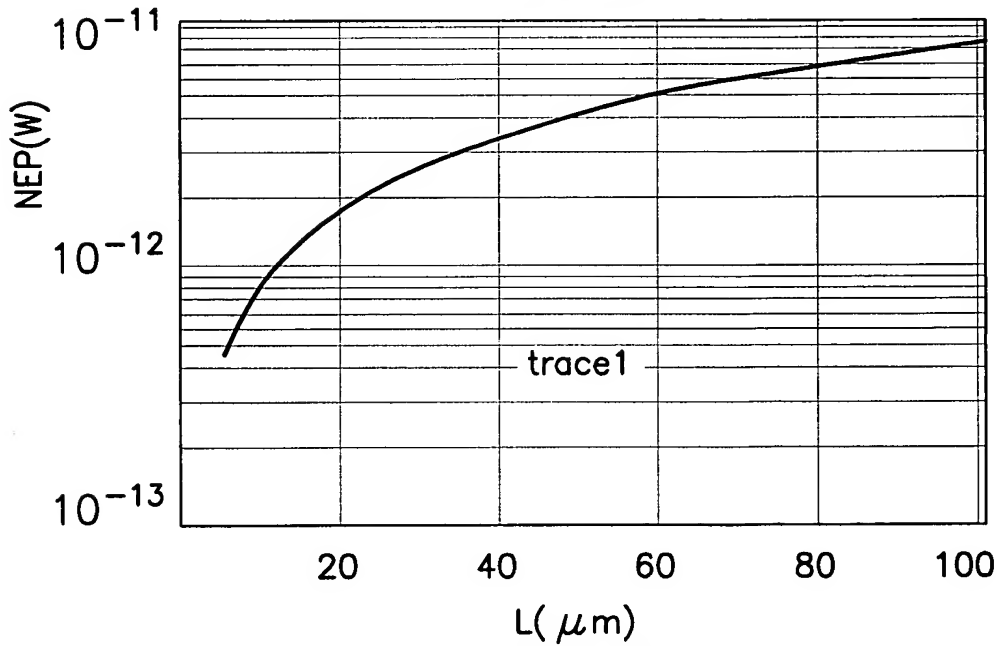


FIG.6